

Ujit Kumar

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VISION

To use my strong background in computer science and my enthusiasm for software development to create efficient and user-friendly programs that address real-world problems, and to build a career marked by continuous learning, cooperation, and a commitment to providing high-quality solutions that exceed expectations.

EDUCATION

• IIT Madras

Bachelor of Science in Data Science and Applications: CGPA: 7.2

Chennai, India

Dec. 2020 – Dec. 2024

PROJECTS

• Blogging and Content Sharing Platform

Dec 2022 - Jan 2023

- Designed and coded a highly-scalable, multi-user blog web app in Python and Flask framework with a focus on consistency and availability, following SOLID principles and utilizing the MVC design pattern. The app featured secure interactions through the implementation of a Restful API and allowing users to share and publish images.
- Utilized ORM with SQLAlchemy for efficient data management and SQL Queries. Documented and tested the API for optimal performance using Swagger and Postman. Utilized Docker for scalability and ease of deployment.

• Real-Time Human Disease Prediction using ML

June 2022 - July 2022

- Created a Python-based machine learning application that utilizes the Support Vector Classifier(SVC) algorithm in Jupyter Notebook to predict human disease. Carried out data processing from CSV using NumPy and Pandas.
- Trained the dataset using sklearn on CPU. Used linear kernel functions to optimize the model performance. Evaluated the model using confusion matrix and plotted the result with Matplotlib, achieving an accuracy of 94 %.

• Real-Time Product Price Alerts

Aug 2021 - Sep 2021

- Designed and developed a microservice app using Scrapy and Python to scrape product prices from e-commerce websites. Used algorithms and data structures like Dictionaries and Linked Lists for real-time price data retrieval
- Utilized MySql for data storage. Developed a stateless microservice to send alert notifications via SMS to the user, based on their target price. Deployed the system on AWS EC2 using Docker for easy scaling and deployment.

• Multiplayer Trivia Challenge

Jan 2020 - Feb 2020

- Created and designed a cross-platform multi-user quiz game using Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies. Automated tasks to perform routine maintenance using Apscheduler.
- Implemented logic for regenerating question set, using MySql database queries and randomization algorithms with the help of NumPy and Python. Implemented logging and monitoring for troubleshooting and debugging.

SCHOLASTIC ACHIEVEMENTS AND AWARDS

- Qualified SnackDown - CodeChef — 2021
- Achieved a top 20 ranking among participants from all over India in the Space Olympiad — 2019
- Achieved 1st Rank in the Regional Level (KVS) Science Exhibition — 2019

EXTRACURRICULARS

- Participate in Intra College Table Tennis match — 2021
- Got selected as One of the students to attend the Student-Scientist Interaction (JIGYASA) — 2019
- Achieved 1st Rank in English Skit Competition — 2016

SKILLS

Programming: Python, C, Java **Database:** MySql **Data Science:** NumPy, Matplotlib, Pandas **Frameworks:** Flask, Scrapy **IDE:** VS Code, PyCharm **OS:** Windows, Ubuntu **Deployment:** Docker, Git

INTERESTS

Computer Games, Cricket, Watching Movies, Cooking, Travelling